

Aug 2004
R2004

Undifferentiated

Generalized lithology
LIMESTONE AND MARL: Tan to yellow, sandy limestone and sandy marl

NOTE: Top of Umm er Radhuma not exposed in area of reference section but does crop out near Wadi Sahaba where the contact is between dolomite with *Lockhartia tipperi* (Davies) below and soft chalky dolomitic limestone of Rus Formation above

(2) CALCARENITIC LIMESTONE, APHANITIC LIMESTONE, AND DOLOMITE: Intimately interbedded tan to gray partially dolomitized commonly fossiliferous and siliceous pellet calcarenitic limestone and tan to gray partially dolomitized alternately chalky and siliceous aphanitic limestone. Common poorly preserved Foraminifera, gastropods and pelecypods. Occasional beds of gray to brown tight finely crystalline dolomite. (140.4 m)

Umm er Radhuma (243.1 m)

(1) APHANITIC LIMESTONE: Light-gray and tan partially dolomitized commonly fossiliferous chalky rarely siliceous aphanitic limestone; thin beds of gray and yellow tight, finely crystalline dolomite in upper part and at base. Rare Foraminifera and some gastropods and pelecypods. (102.7 m)

Aruma

SHALE: Gray, blue-gray, and tan dolomitic shale

Vertical scale: 1:1000

Location:

27°38'03" to 27°59'00"
44°53'24" to 45°27'48"

Diagnostic fossils

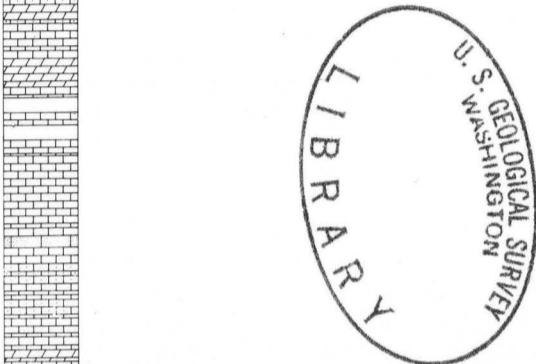
Outcrop section:

OUTCROP SECTION: Contains few poorly preserved fossils. Abundant well preserved Foraminifera occur in equivalent subsurface interval as follows:

Upper part: *Heterostegina ruida*, *Lockhartia hunti* var. *pustulosa*, *Lockhartia tipperi*, *Nummulites frassii*, *N. lahirii* var. A, *N. lahirii* var. B, *N. sp.*, *Operculina spp.*, *Rotalia trochidiformis* subsp. *spiralis*, *Sakesaria cotteri*

Middle part: *Daviesina langhami*, *Dictyokathina simplex*, *Kathina major*, *K. selveri*, *Lockhartia conditi*, *L. diversa*, *L. haimei*, *Miscellanea meandrina*, *M. miscella*, *M. miscella* var. *dukhani*, *Operculina aff. O. pataleensis*, *O. cf. O. ammonea*, *O. sp.*, *Sakesaria dukhani*, *S. dukhani* var. *cordata*, *S. ornata*

Lower part: *Asterigerina dukhani*, *Daviesina danieli*, *D. delicata*, *D. khatiyahi*, *Kathina delseota*, *Lockhartia altispira*, *L. conica*, *L. prehaimei*, *L. sp.*, *Rotalia dukhani*, *R. hensonii*, *R. sp.*, *Smoutella arabica*



Possible disconformity

MAESTRICHTIAN	MONTIAN(?)	UPPER CRETACEOUS
THANETIAN	PALEOCENE	
YPRESIAN	EOCENE	
MIocene AND PLIOCENE		

After W. H. Reiss and
R. D. MacDougall, 1953

UMM ER RADHUMA FORMATION REFERENCE SECTION, SAUDI ARABIA

228-776 O - 66 (In pocket)